

PART I.-VOL. VI.

THE PLOUGH

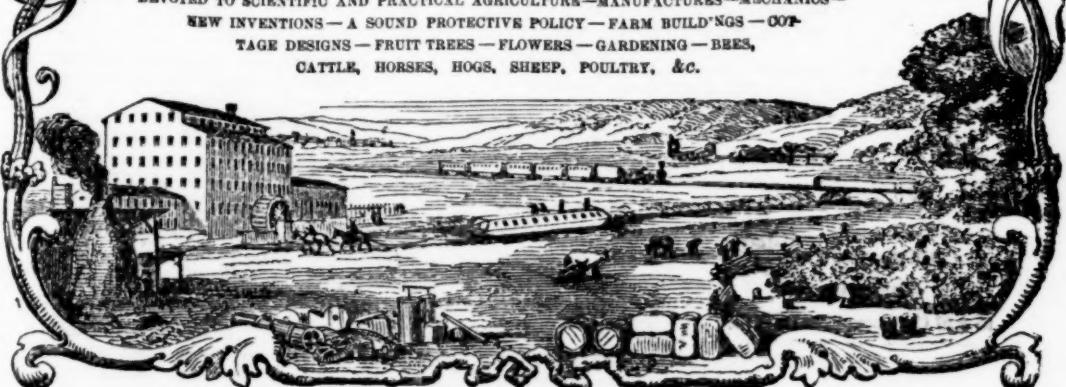


THE LOOM AND THE ANVIL.



FARMER AND MECHANIC.

DEVOTED TO SCIENTIFIC AND PRACTICAL AGRICULTURE—MANUFACTURES—MECHANICS—
NEW INVENTIONS—A SOUND PROTECTIVE POLICY—FARM BUILDINGS—COTTAGE DESIGNS—FRUIT TREES—FLOWERS—GARDENING—BEEHIVES,
CATTLE, HORSES, HOGS, SHEEP, POULTRY, &c.



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SOMETHING FOR FARMERS.—We saw, yesterday, the model of a machine for cutting corn in the stalk. It is partially on the plan of Mr. McCormick's reaping-machine, and is designed to cut two rows of corn at a time. Between two wheels there is an axle, to each end of which is attached a knife for cutting each row of corn. To the axle are also attached shafts for the horse which pulls the machine. The horse walks between the rows of corn, and the knife just on the inside of each wheel cuts the corn, which falls on a bed or plate to catch it, in a manner resembling the operations of a wheat-reaper. The bed which catches the corn, opens in the centre, at the pleasure of the operator, to discharge the corn in bundles. We are informed that with one man and a horse, the machine will cut twenty acres of corn per day. It is the invention of a citizen of Illinois.—*Richmond Enquirer.*

THE BEST TIME-KEEPERS.—Under the caption of "Greater Security," the editor of Swan's *Elevator* states that Wm. H. Clement, Esq., Superintendent of Little Miami and Columbus and Xenia Railroad, has contracted with Messrs. Blyan & Baldwin, jewelers, of Columbus, to furnish twenty-four watches for the use of the conductors on those roads at the cost of the Company." This, we regard as a first-rate *movement*, and if Mr. Clement will just order twenty-four tee-total temperance men to carry the watches, the arrangement will be complete. There is little use in a watch keeping time if the watcher sees it through a whisky fog.

CAMPHOR VS. PEA-BUGS.—Having observed, in the *Horticulturist*, an inquiry relative to seed-peas damaged by bugs, I will offer a remedy, perhaps not new, but new to me. Four years ago last spring, my seed-peas were more than half destroyed by bugs, the largest and best varieties being most injured. The summer following I had boxes made, one for each variety, with a cover; and when the peas were gathered, I put into each box, with two quarts of peas, from six to eight bits of gum camphor, the size of a large pea, and mixed them together, and closed the box. The next spring there was not a pea injured. I have pursued the same course every year since, and have not had one pea affected by bugs.

THE RICHEST MINE.—The manure applied to the soil of England amounts to three hundred millions of dollars, being more than the value of its whole foreign commerce, and yet the grateful soil yields back with interest all that is thus lavished upon it. And so it would be here, if we would only trust the soil with any portion of our capital. But this we rarely do. A farmer who has made any money spends it not in his business, but in some other occupation. He buys more land when he ought to buy more manure, or he puts out his money in some joint-stock company, to convert sunshine into moonshine. Rely upon it, our richest mine is the barn-yard, and whatever temptation stock or shares may offer, the best investment for the farmer is live stock and ploughshares.

DECLIVITY OF RIVERS.—A very slight declivity suffices to give the running motion to water. Three inches per mile, in a smooth, straight channel, gives a velocity of about three miles an hour. The Ganges, which gathers the waters of the Himalaya mountains, the loftiest in the world, is, at eight hundred miles from the mouth, only about eight hundred feet above the level of the sea, that is, about twice the height of St. Paul's Church, in London, or the height of Arthur's Seat, near Edinburgh, and to fall these eight hundred feet in its long course, the water requires more than a month. The great river Magdalena, in South America, running for a thousand miles between two ridges of the Andes, falls only five hundred feet in all that distance. Above the commencement of a thousand miles, it is seen descending in rapids and cataracts from the mountains. The gigantic Rio de la Plata has so gentle a descent to the ocean, that in Paraguay, fifteen hundred miles from its mouth, large ships are seen, which have sailed against the current all the way, by the force of the wind alone; that is to say which, on the beautifully inclined plane of the stream, have been gradually lifted by the soft wind, and even against the current, to an elevation greater than that of our loftiest spires.

ENGINEER'S RAILWAY CLOCK.—John N. Robertson, of Columbus, S. C., proposes a time table-clock for engineers on locomotives, which is worthy of attention as a most useful improvement. He has sent us a diagram of this "time-piece," with a folding dial, on the outside circle of which, on one side is the time table of the Charlotte and South Carolina Railroad, for the up, and on the other side a like time table for down trains. The distances between the stations are laid out on the outer circles, and the hands of the clock point to the hours and minutes which are laid out on an inner circle. The clock is to be made perfectly tight, and secured to the locomotive in front of the engineer. It may be regulated and locked by the local superintendents, which will prevent disasters arising from a difference of time in the different watches of the conductors or engineers. By such a clock, the engineer will know at a glance the rate at which he should run his engine to arrive at the exact time at every station.—*Scientific American.*

EFFECTS OF INTERNAL IMPROVEMENTS.—The town of Fayetteville, N. C., situated in a great agricultural region, has for years had to depend for its supply of hay on the New-York and other northern markets. Recently the Western plank-road, connecting with that city, has been finished, and a few days ago they received over 10,000 lbs. of hay, (of the North,) brought in from Forsyth co., N. C., at \$1 25 per 100 lbs. The Fayetteville *Observer* says:

"We learn that such hay has been abundant in that county at 30 cents. per 100 lbs., but that since that article has been brought here at a profit, it has risen to 50 cents. The meadow from which this hay came, has yielded at the first cutting this year about 2,500 lbs. per acre—of herds-grass, clover, &c. At the second cutting it will yield fully as much more of blue grass. Five thousand pounds, worth formerly, at 30 cents, \$15 per acre, worth now at 50 cents, \$25 per acre. This shows a clear gain to the farmer of \$10,000 per annum per acre, or interest equal to an increase in the value of his land of \$166.66 per acre."

KILLING INSECTS.—At a recent discussion by the members of the Massachusetts Horticultural Society, the value of sulphur and quicksilver in destroying insects was thus estimated. We know these gentlemen well, and their opinions are reliable.

Dr. WIGHT stated that he had satisfactorily tested the value of quicksilver and sulphur in destroying insects. Three years ago, he bored a hole in an apple tree, pouring in quicksilver, and plugged up the hole tight. One year after, he opened the hole, and found the quicksilver in the same state and the same quantity as when put in; it had not undergone the least change whatever. In another tree he bored a similar hole, and inserted roll brimstone. A year afterwards, it was opened with the same result as the other experiment; not the least change had taken place; the sulphur remained as when put in.

Mr. C. M. HOVEY thought this a perfectly convincing proof of the utter falsity of such experiments. Dr. Wight was a careful observer, and accurate in all his experiments; and he trusted he would for ever set at rest, at least with all reasonable men, the nonsensical idea that the quicksilver or sulphur would be decomposed and absorbed by the sap, and carried throughout the tree, poisoning the insects which fed upon the leaves. It was an *annual* paragraph for the newspapers, and underwent *annual* trials by persons who believed all they read in them, especially upon agricultural or horticultural topics, and who always reported successful results. If these discussions elicited such facts as these, their importance could not be questioned.

MASSACHUSETTS COAL-FIELDS.—President Hitchcock's report to the Massachusetts Legislature, in relation to the coal-fields of this State, has been published. The coal-field covers an area of some five hundred square miles, and has been wrought in fifteen or twenty different localities.

GOLD BRICK.—We are informed by the *El Dorado News* that the clay which a Mr. Herwick is using for the manufacture of brick contains considerable gold. One day a miner took a wheelbarrow, and conveyed the dirt some distance, and made three dollars in half a day out of this clay.

TRAINS OUT OF BOSTON.—One hundred and forty-two railroad trains leave Boston, daily, viz: by Old Colony, 17; Providence, 18; Worcester, 25; Fitchburg, 26; Lowell, 15; Boston and Maine, 30; and Eastern 11. This of course, includes all the branches. The same number return daily, likewise.

THE NEW TUNNEL BORER built at Hartford, works well. Instead of leaving a core to be removed by blasting, as the Hoosac Machine does, it cuts an entire circle, and is so constructed that the chips of the rock can all be removed while it is in motion. The cost of the machine is about \$25,000.—*Exchange*.

We are not quite sure that not "leaving a core" is a gain over the action of the Hoosac Machine. If the time of the Machine and the wear of tools is to be used up in doing what a blast of powder will do in less time than the machine requires, the gain will prove a *minus* quantity. In such machines it is emphatically true, that actual experiment is worth much more than the finest theory.—*ED. P. L. & A.*

DISCOVERIES IN IRON WORKING.—The National Intelligencer says that an important announcement in England, and which is exciting great attention, is a development of new principles in iron metallurgy. The general opinion of those who are competent to judge, says the Mining Journal, is that the inventions and discoveries referred to will open an entirely new era in the manufacture of iron, not only with regard to its various multiplications, but to the construction and arrangement of apparatus also. Immense quantities of very valuable ore have lately been discovered in Northamptonshire, also in Yorkshire and in the west of England, within easy reach of the iron masters of Monmouthshire and South Wales. If half these rumors be correct, the iron trade will be revolutionized.

TO PREVENT THE PUTRID FERMENTATION OF URINE.—A small quantity of muriatic acid should be poured into or upon it. It unites with the ammonia, and forms the muriate of ammonia.

FRUIT TREES AND GAS.—The leakage of gas-pipes is found to be destructive to trees growing near them.

THUNDER IN LIMBO.—An exchange says, a gentleman in Iowa proposes to keep cities free from thunder-storms "for so much per year." To most people, this offer would be looked upon as preposterous, and yet it is not. We have no doubt whatever that an outlay of \$10,000 would keep New-York as isolated as a glass table with sealing-wax legs. What a gentleman in Iowa proposes to do for us, has already been done for the vine-growers in the south of France. By means of a well arranged system of lightning rods, a whole district has been rendered inaccessible to those destructive hail storms which so frequently follow in the train of thunder showers. What has been done in France, can be done elsewhere. If we can teach lightning to write, we can teach it to behave itself.

ECONOMY IN FEED.—To feed an ox to one thousand two hundred pounds weights, usually takes five years; while the same weight of poultry can be made ready for the table in about three months, and at less than half the cost in food. So says an English poultreer.

GUM ARABIC.—In Morocco, about the middle of November, that is, after the rainy season, which begins in July, a gummy juice exudes spontaneously from the trunk and principal branches of the acacia tree. In about fifteen days it thickens in the furrow, down which it runs either in a vermicular or worm shape, or more commonly assuming the form of oval and round tears, about the size of a pigeon's egg, of different colors, as they belong to the white or red gum tree. About the middle of December, the Moors encamp on the borders of the forest, and the harvest lasts six weeks.

The gum is packed in very large sacks of leather, and brought on the backs of bullocks and camels to certain ports, where it is sold to the French and English merchants. Gum is highly nutritious. During the whole time of the harvest, of the journey, and of the fair, the Moors of the desert live almost entirely upon it; and experience has proved that six ounces of gum are sufficient for the support of a man during twenty-four hours.

PORTRAIT-PAINTING.—**Mrs. SPENCER.**—Amid the numerous collections of paintings that we have visited, we have seldom been so much attracted by exhibitions in this department of art, as by those of Mrs. Spencer. They are quite superior and life-like. The elegant style of her work has led us repeatedly to inquire the name of the artist. Specimens of her painting may be seen at the rooms of the Art-Union, and at her studio, 193 Bleecker street.

NEW BOOKS.

GOLDEN LINK, or, Poems and Tales for the Young. By W. OLAND BOURNE, A. M. New York: Charles Scribner. 1854. 256 pages.

The songs of a nation, according to universal belief, materially control the character and action of a nation. How much more do the books, in poetry and prose, placed in the hands of children, and which they read and *devour* as they do their dinners. If the food promotes the growth of the body, so does such mental food modify and control the mind and heart.

Mr. Bourne not only understands this, but knows how to profit by his knowledge. He loves children, and he admires goodness, and he uses his talent in an efficient manner. This book is evidence of all this. His tales are very interesting, and each involves important truth. Thus, "The Broken Mast" illustrates from history, the fact that the breaking of a mast, though a trivial event in itself, may overthrow a State. "Bill Smith's Fourth of July" shows that Liberty does not involve the right to do wrong. "The Scotch Quarry Boy, or, The Boy who wrote his name on the Sand-stone," illustrates the importance of writing one's name so that it will tell something, and he uses the life of Hugh Miller, the great geologist, as an example. The book, as a whole, deserves a conspicuous place in every child's library, and in every Sabbath-school library in the world.

List of Patents Issued,

FROM OCT. 7 TO NOV. 1.

Joel Barker, of Boston, Mass., for improvement in car-wheels.

Elihu R. Benson, of Warsaw, New-York, for improvement in slat machines for window blinds.

Gardner A. Bruce, of Mechanicsburg, Ill., for improvement in corn-planters.

A. A. Dickson, of Griffin, Ga., for improvement in machines for topping cotton in the fields.

Mark Fisher and John H. Norris, of Trenton, N. J., for improvement in apparatus for polishing anvils.

Joseph F. Flanders, of Newburyport, Mass., for improvement in machines for rubbing and polishing leather.

Joshua Gibbs, of Canton, Ohio, for improvement in machines for grinding plough-castings.

Robert A. Graham, of New-Paris, Ohio, for improvement in ploughs.

Thomas C. Hargreaves, of Schenectady, N. Y., for improvement in corn-husking machines.

William Horsfall, of New-York, N. Y., for improvement in annunciators for hotels.

Richard Ketcham, of Seneeca Castle, N. Y., for improvement in straw-cutters.

Zadok H. Mann, of Newport, Ky., for improvement in car-wheels.

Benj. Rutter and Henry Rowzer, of Pique, Ohio, for improvement in smut-machines.

John C. (fr.) Salomon, of Washington, D. C., for improvement in rotary steam-engines.

George S. G. Spence, of Boston, Mass., for improvement in cooking-ranges.

Edward Brown, of Ring, N. H., assignor to Josiah Norcross, M. D., of South Reading, Mass., for improvement in burglar alarms.

Ephraim L. Pratt, of Worcester, Mass., assignor to James Sargent and Daniel P. Foster, of Shelsbury, Mass., for improvement in machine for paring apples.

Joseph C. Strode, of East Bradford, Penn., for improved hydraulic ram.

Henry Vandewater, of Albany, N. Y., for improvement in turbine water-wheel.

James A. Woodbury, of Winchester, Mass., and Joshua Merrill and George Paten, of Boston, Mass., for improvement in air engines. Patented in England, 5th January, 1853.

Elizur Wright, of Boston, Mass., for improvement in stopcock.

John E. Anderson, of New-York, N. Y., for improvement in throttle valve arrangement.

Edmund H. Graham, of Biddeford, Me., for improvement in magazine guns.

Levi B. Griffith, of Honeybrook, Penn., for improvement in plough-beams.

Archibald S. Littlefield, of Portland, Me., for improvement in self-acting switches.

Leonard S. Maning, of Westport, Mass., for improvement in cutter for boring wheel-hubs.

Hiram Powers, now residing in Florence, Italy, for improvement in files and rasps.

Philip P. Ruger, of New-York, N. Y., for improvement in machine for turning spiral mouldings.

John Headington Ward, of Sonora, Cal., for improvement in gold washers.

Charles Treat Paine Ware, of New-York, N. Y., for improvement in propellers.

William C. Dean, of Jacksonville, N. Y., for improvement in guide for doweling felloes for wheels.

Marshall Finley, of Canandaigua, N. Y., for improvement in daguerreotype plate holder.

Charles B. Hutchinson, of Syracuse, N. Y., for improvement in machines for joining staves.

J. Augustus Roth, of Philadelphia, Pa., for improvement in process for dechlorinating bleached fabrics.

James H. Murrill, of Richmond, Va., for improvement in looms for weaving coach lace.

John P. Hayes, of Boston, Mass., for improvement in cooking ranges.

Ozias J. Davie and Thomas W. Stephens, of Erie, Pa., for improvement in machines for punching metal.

John Newell, of Boston, Mass., for improvement in camphene lamps.

Richard H. Frindell, of Fayette county, Ky., assignor to **William J. Thurman**, of Washington, Ky., for improvement in planing-machines.

C. R. Brinckerhoff, of Batavia, N. Y., for improvement in ploughs.

H. P. Bryam, of Louisville, Ky., for improvement in hullers of grass seed.

John B. Cullan, of Reading, Pa., for improvement in detachable lining for the fire boxes of steam-boilers.

Gilman Davis, of Roxbury, Mass., for improvement in ash pans for locomotive engines.

S. G. Dugdale, of Richmond, Ind., for improvement in opening and closing gates.

Chas. Goodyear, of New-Haven, Conn., for improvement in covering iron with gutta-percha.

N. Harrison and J. W. H. Metcalf, of Bridgeville, Va., for improvement in hill-side ploughs.

Joseph Harris, Jr., of Boston, Mass., for improvement in driving circular saws.

Daniel Hill, of Barberville, Ind., for improvement in attachment of a harrow to a land roller.

T. B. Jones, of Carloville, Ala., for improvement in cob and stalk cutters.

H. M. Keller, of Newark, Ohio, for improvement in winnowers of grain.

J. J. Parker, of Marietta, Ohio., for improvement in straw cutters.

Samuel Snow, of Fayetteville, N. Y., and Alex-

ander Hline, of Lafayette, N. Y., for improvement in rotary root-digging cultivator.

Jacob L. Van Valkenburg, of Ogdensburg, N. Y., for improvement in shaking shoes for winnowers.

Horace W. Woodruff, of Watertown, N. Y., for improvement in treating metals while in the molten state.

D. H. Whittlemore, of Chicopee Falls, Mass., for improvement in vegetable cutters.

H. G. Robertson, of Greenville, Tenn., for improvement in washing machines.

Bansford Gilbert, of Pittsburgh, Pa., for improvement in griddles.

A. B. Latta, of Cincinnati, Ohio, for improvement in oscillating engines.

Leiland Foreman, of New-York, N. Y., for improvement in life-boxes.

Wm. Stephens, of Pittston, Pa., for improvement in valve motion of oscillating engines.

John A. Elder, of Westbrook, Me., assignor to **John E. Coffin**, of Portland, Me., for improvement in cutting binders' boards.

L. M. Whitman, assignor to **S. G. Wise**, of Weedsport, N. Y., for improvement in cultivating ploughs.

George S. G. Spence, of Boston, Mass., for improvement in cooking ranges.

Ebenezer Beard, of New-Sharon, Me., for improvement in propellers.

Edwin B. Bowditch, of New-Haven, Conn., for improvement in sofa-beds.

Wm. Crighton, of Fall River, Mass., for improvement in shuttle motions for power-looms.

Henry S. Crider and David Williams, of Lancaster, Ohio, for improvement in attaching artificial teeth to the metallic plate.

James J. Clark, of Philadelphia, Pa., for improvement in self-winding telegraph-registers.

Chas. Flanders, of Boston, Mass., for improvement in steering apparatus.

Benj. Frazee, of Durhamville, N. Y., for improved mode of operating mill-saws.

Robert Griffiths, of Newport, Ky., and **George Shield**, of Cincinnati, Ohio, for improvement in machines for making railroad chairs.

Geo. W. Griswold, of Carbondale, Pa., for improvement in implements for cutting cloth.

Thos. Hinkley, of Hallowell, Me., for improvement in instruments of plotting.

Daniel Lyman, of Buffalo, N. Y., for improvement in cutting boots.

Wm. Mason, of Taunton, Mass., for improvement in power-looms.

Norman Millington and Dennis J. George, of Shaftsbury, Vt., for improvement in machines for figuring carpenters' squares.

John Pender, of Worcester, Mass., for improvement in power-looms.

Benj. F. Rice, of Clinton, Mass., for improvement in looms for weaving fancy-goods.

John Scott, of Philadelphia, Pa., for improvement in air beds.

Nathan Thompson, Jr., of Williamsburgh, N. Y., for improved life-preserving bucket.

Nathan Thompson, Jr., of Williamsburgh, N. Y., for improved life-preserving seat.

Thomas E. Warren, of Troy, N. Y., for improvement in iron car-bodies.

J. W. Weatherby, of Kingsville, Ohio, for improvement in carpet-strippers.

Linus Yale, of Newport, N. Y., for improvement in door-locks.

Harry Whittaker, of Buffalo, N. Y., for improvement in the application of high-pressure engines to screw-propellers.

Calvin Adams, of Pittsburgh, Pa., for improved window-shutter, fastener and holder.

G. T. Beauregard, of New Orleans, La., for improvement in self-acting bar-excavators.

Ezra H. Jones, of Litchfield, Me., for improvement in devices of a convertible dung-fork.

Frederic P. Dimpfel, of Philadelphia, Pa., for improvements in propelling vessels.

Agustus Eliers, of Boston, Mass., for improvement in lounge.

Agustus Eliers, of Boston, Mass., for improvement in library step-chairs.

Wooster A. Flanders, of Sharon, Vt., for improvement in bee-hives.

John D. Elkins and Wm. H. De Puy, of Lima, Ind., for improvement in attaching horses to ploughs.

Samuel Hutchinson, of Rockport, Ind., for improvement in cutting and planting potatoes.

David S. Mackey and Jarvis R. Smith, of Batavia, N. Y., for improvement in sunflowers.

E. G. Matthew, of Troy, N. Y., for improvement in machines for dressing stone.

Chas. Perley, of New-York, N. Y., for improvement in ships' side-lights.

Alphonse Quantin, of Philadelphia, Pa., for improved valve-gauge for bottles.

Henry L. Russel, of Hudson, Mich., for improvements in metallic piston packing.

Wm. W. Richards, of Philadelphia, Pa., for improvement in making shovels, spades, &c.

Benj. P. Sargent, of Sutton, N. H., for improvement in expanding horse-shoes.

Jacob T. Sargent, of Sutton, N. H., for improvement in garden and other hoes.

David M. Smith, of Springfield, Vt., for improvement in spring-clamps for clothes-lines.

James Trees, of Salem, Pa., for improvement in propellers.

Albert Vose, of Pittsfield, Vt., for improvement in ox-yokes. Ante-dated Aug. 10, 1853.

Wm. Wheeler, of West Pultney, Vt., assignor to Chas. H. Kellogg, of Troy, N. Y., for improvements in cutting the bars and teeth of cury-combs.

Wm. Coughlin, of Baltimore, Md., for improvement in soda fountain.

Nelson Crocker, of Sandwich, Mass., for improvement in attaching the head-cringle to the yards of vessels.

Nathan C. Davis, of West Jefferson, Ohio, for improvement in seed-planters.

Daniel Noyes, of Abington, Mass., for improvement in machine-hammers.

Samuel Pratt, of Boston, Mass., for improvement in screw-nails.

Samuel Sweet, of New-York, N. Y., for improved spark-arrester.

Kasimer Vogel, of Chelsea, Mass., for improvement in looms for making weavers' harness.

Wm. Ballard, of New-York, N. Y., for improved protecting bulwarks for war vessels.

Calvin Carpenter, Jr., of Pawtucket, Mass., for improvement in magneto-electric machines. Patented in France, April 18, 1853.

A. P. Chatham, of Canoga, N. Y., for improvement in car-coupling.

Gilbert S. Clark, of New-York, N. Y., for improved pen and pencil case.

Jno. W. Cormack, of Quincy, Ill., for improvement in cane and maize cutters.

Benj. Crawford, of Pittsburgh, Pa., for improvement in condensers for steam-engines.

Chauncey O. Crosby, of New-Haven, Conn., for improvements in machines for sticking pins.

David Demarest, of New-York, N. Y., for hose protector.

Joseph Farnsworth, Jr., of Madison, Ind., for improvement in car-wheels.

Luther R. Faught, of Macon, Ga., for improvements in regulating the speed of steam-engines.

Christopher P. Kelsey, of Livingstonville, N. Y., for improvement in grain-cradles.

Edmund Morewood and Geo. Rogers, of London, England, for improvement in coating sheets of metal.

Russel S. Morse, of Dixfield, Me., for improvement in adjustable springs for carriages.

Howard Perkins, of North Bridgewater, Mass., for carpenters' brace and bit fastener.

Henry M. Ritterband, of New-York, N. Y., for improved gold-washer.

John A. Taplin, of Fishkill, N. Y., for improvement in straw and grain separators.

Wm. H. Towers, of Philadelphia, Pa., for improvement in metallic pens.

Increase S. Waite, of Hubbardston, Mass., for improved machine for turning cylinders of wood.

Peter H. Watson, of Washington, D. C., for improvements in generating and condensing steam. Ante-dated May 2, 1853.

Jacob V. A. Wemple, of Chicago, Ill., for improvement in grain separators.

George Calvert, of Upperville, Va., for improvement in bee-hives.

Senecca Lapman, of Salem, Ohio, for improvement in devices for steering cultivators.

Wm. R. Leonard, of New-York, N. Y., for improvement in fluid metres.

Wm. T. Merritt, of Hart's Village, N. Y., for improved mode of opening and closing gates.

Geo. Williston, of Brunswick, Me., for improvement in machines for straightening and curving rails.

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It commences with the first foot-tread upon the spot chosen for the house; details the considerations that should weigh in selecting the site; gives models of buildings differing in character, extent, and cost; shows how to harmonize the building with the surrounding scenery; teaches how healthfully to warm and ventilate; assists in selecting furniture and the innumerable articles of utility and ornament used in constructing and finishing, and concludes with final practical directions, giving useful hints as to drawing up written descriptions, specifications, and contracts.

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A large stock of the best No. 1 Fire Brick constantly on hand. Vessels of any draft can load at any stage of the tide and season of the year.

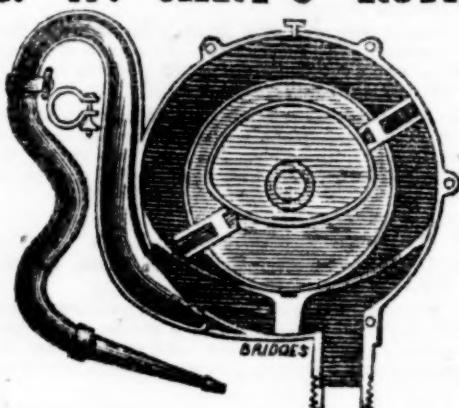
SHAPES.—Large and small Bull-Heads, in walls, from 5 feet to 8½ feet circle; Wedges, Split Brick, Soaps, Cupola, for any circle, from 18 inches to 30 inches, constantly on hand.

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These pumps are well calculated for all the purposes for which pumps or hydrants may be used, viz., Factories, Steamboat Tanneries, Breweries, Distilleries, Railroads, Water Stations, Hotels, Mines, Garden Engines, &c.

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No. 1 is a house or well pump and domestic Fire Engine, and will raise from 20 to 30 gallons per minute.

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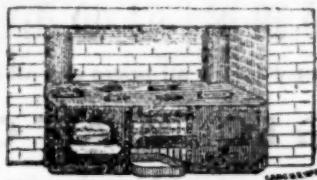
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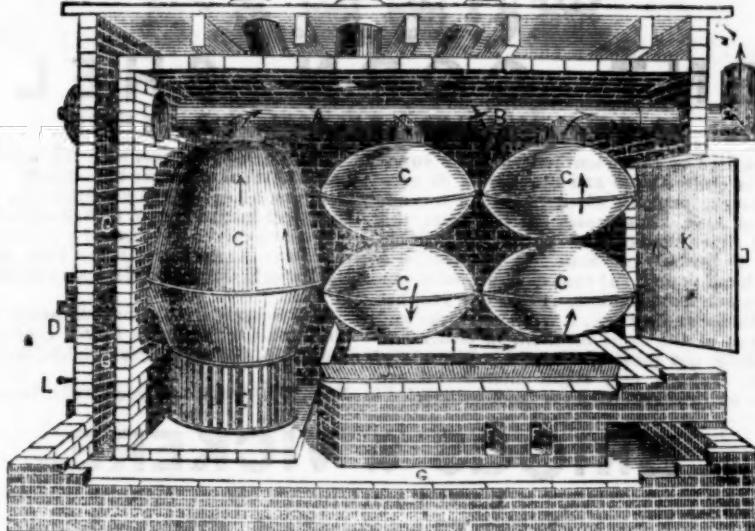
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FALL OF 1853.

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Do.	do.	9 A. M.	Do.	do.	8 A. M.
Do.	do.	3 30 P. M.	Do.	do.	3 1/2 P. M.
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This Machine has met with the universal approbation of classes of men wherever introduced. It was awarded the premium, a heavy SILVER MEDAL, at the Great Fair of Maryland Institute, held in Baltimore, October, 1850.

It also received the highest premium which was awarded the great Agricultural State Fair of Pennsylvania, held Harrisburg, October, 1851. Also at the State Fair of Kentucky in 1852.

The Subscriber having purchased the Patent Right of above Sheller for all the United States and Territories, will Township, County or State rights, on reasonable terms.

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wish to purchase to call and judge for themselves.

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A FERTILIZER of the most approved quality, producing all the immediate effect of the best Peruvian Guano, with the advantage of being much more lasting in the soil. Thoroughly tested, and found to more than realize the expectations of all those who have already tried it. The best evidence of this is the largely increased demand this season over the past year. Put

up in bags of 160 lbs.; barrels 250 lbs. each. Buyers will please be particular to observe our brand upon each bag or barrel.

Also for sale, American and Foreign Field and Garden Seeds, English Ray Grass, Foul Meadow Grass, fine mixed Lawn Grass, White Clover, Osage, Orange, &c.

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Author of "Viola," "Clara Moreland," "The Forged Will," etc., etc.

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Author of "Home Pictures," "Gertrude Russell," etc.

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of the subjects treated of will be without interest for numerous readers. It strikes us as better for the student, unless he sets out to become an "admirable Crichton" or an omnivorous Magliabechi, to make use of a good treatise on the special branch which he wishes to master. He will only be confused by finding a discourse on philosophy, when he wishes to become acquainted with mathematics, or by being deprived of a second chapter on history by the commencement of a treatise on architecture. With these objections to the general idea of the work, we can freely commend the manner in which the different portions are discussed and illustrated.—*Tribune.*

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